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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/701,395 09/25/2001		09/25/2001	Francis X. Cunningham JR.	P108172-00022	8945	
4372	7590	02/25/2003				
		NER PLOTKIN	EXAMINER			
SUITE 400		T AVENUE, N.W.		RAMIREZ, DELIA M		
WASHINGTON, DC 20036				ART UNIT	PAPER NUMBER	
				1652	9	
			DATE MAILED: 02/25/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		09/701,395	CUNNINGHAM ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Delia M. Ramirez	1652					
The MAILING DATE of this communication appears n the cover sheet with the corresp ndence address Period for Reply								
THE I - External after of the control of the contro	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	ation				
Status	5							
1)[Responsive to communication(s) filed on							
2a)□	, <u> </u>	is action is non-final.						
3)	Since this application is in condition for allowated closed in accordance with the practice under			its is				
Dispositi	on of Claims		,	,				
4)⊠	Claim(s) $\underline{\text{1-8}}$ is/are pending in the application.	•						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	•					
5)	Claim(s) is/are allowed.							
6)□	Claim(s) is/are rejected.							
7)	Claim(s) is/are objected to.							
-	Claim(s) <u>1-8</u> are subject to restriction and/or el	ection requirement.						
	on Papers							
	The specification is objected to by the Examine							
10)[The drawing(s) filed on is/are: a)☐ accep	·						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
	The oath or declaration is objected to by the Ex	amıner.						
	ınder 35 U.S.C. §§ 119 and 120							
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:	•						
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents	s have been received in Ap	plication No					
* S	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_					
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen		, , ,						
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	immary (PTO-413) Paper No(s). formal Patent Application (PTO-152)					

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DETAILED ACTION

Claims 1-8 are pending.

It is noted that according to PTO records, the International Bureau received on 11/15/1999 amended claims 1, 2, 7 and 8.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-6, partially drawn to a polynucleotide encoding the Adonis palaestina ϵ -cyclase of SEQ ID NO: 23.

Group II, claim(s) 1-6, partially drawn to a polynucleotide encoding the potato ϵ -cyclase of SEQ ID NO: 25.

Group III, claim(s) 1-6, partially drawn to a polynucleotide encoding the chimeric lettuce/potato ϵ -cyclase of SEQ ID NO: 26.

Group IV, claim(s) 7-8, partially drawn to the Adonis palaestina ϵ -cyclase of SEQ ID NO: 23.

Group V, claim(s) 7-8, partially drawn to the potato ϵ -cyclase of SEQ ID NO: 25.

Group VI, claim(s) 7-8, partially drawn to the chimeric lettuce/potato ϵ -cyclase of SEQ ID NO: 26.

2. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: while Groups I-III are drawn to polynucleotides

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encoding ϵ -cyclases and Groups IV-VI are drawn to ϵ -cyclases, each of these Groups comprise a chemically unrelated structure capable of separate manufacture, use and effect. Groups I-III comprise compounds made out of nucleotides whereas Groups IV-VI comprise compounds made out of amino acids. In addition, each of the polynucleotides of Groups I-III and each of the polypeptides of Groups IV-VI comprise a different and unrelated nucleotide/amino acid sequence. The DNAs of Groups I-III have other uses besides encoding the proteins of Groups IV-VI such as hybridization probes or in gene therapy. The proteins of Groups IV-VI can be produced not only by recombinant DNA expression but also by chemical synthesis or by isolation from their natural sources. Since 37 CFR 1.475 does not provide for multiple products or methods within a single application, unity of invention is lacking with regard to Groups I-VI.

- 3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement can be traversed (37 CFR 1.143).
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. Applicants are requested to submit a clean copy of the pending claims (including amendments, if any) in future written communications to aid in the examination of this application.

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6. Certain papers related to this application may be submitted to Art Unit 1652 by facsimile transmission. The FAX number is (703) 308-4556. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If Applicant submits a paper by FAX, the original copy should be retained by Applicant or Applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delia M. Ramirez whose telephone number is (703) 306-0288. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy can be reached on (703) 308-3804. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

DR February 20, 2003 Delia M. Ramirez, Ph.D. Patent Examiner Art Unit 1652